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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/753,601	01/08/2004	Naoyuki Kagami	JP920000239US2	6347	
42640	7590 07/27/2005		EXAMINER		
DILLON & YUDELL LLP 8911 NORTH CAPITAL OF TEXAS HWY			NEGRON, I	NEGRON, DANIELL L	
SUITE 2110		ART UNIT	PAPER NUMBER		
AUSTIN, T	X 78759		2651		
			DATE MAIL ED: 07/27/200	DATE MAILED: 07/27/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/753,601	KAGAMI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Daniell L. Negrón	2651				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 15 April 2005.						
2a)⊠ This action is FINAL. 2b)□ This	This action is FINAL. 2b) This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 5,7 and 14-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 7 and 17-22 is/are allowed. 6) ☐ Claim(s) 5 and 14-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/950,465. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		ate tatent Application (PTO-152)				

DETAILED ACTION

Claim Objections

1. Claims 20-22 are objected to because of the following informalities:

The numbering of claims 20-22 is improper. Among the newly added claims, two claims have been numbered as 20. The first claim 20 is an independent claim, the second is dependent on claim 19.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 5 and 14-16 are rejected under 35 U.S.C. 103(a) as being anticipated by Dobbek et al U.S. Patent No. 6,034,831.

Regarding claims 15 and 16, Dobbek et al disclose a storage device (Fig. 1) comprising a storage medium (104), a read/write head (108) for writing information on the storage medium, a means for receiving a write command (column 4, lines 6-8), and means for determining whether or not a write operation on the storage medium according to the write command is performed on a target cylinder located adjacent to a defective sector (column 5, lines 30-45), but fail to show a means for setting a verification flag to indicate a data verification is required immediately after

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the write operation in response to a determination that the write operation is performed on a target cylinder located adjacent to a defective sector.

Ma however discloses a storage device comprising means for setting a flag during an certain conditions are met and an error is suspected for the purpose of signaling that data verification is required after writing data (column 5, lines 25-40). Furthermore, if conditions are not met after receiving a write command, the verification flag is not set.

Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the storage device disclosed by Dobbek et al with the teachings of Ma of a write verification flag in order to obtain a storage device which improves data reliability and performance by re-reading data written to the medium through the use of a verification flag in conditions when a write error could occur.

Regarding claims 5 and 14, method claims 5 and 14 are drawn to the method of using the corresponding apparatus claimed in claims 15 and 16. Therefore method claims 5 and 14 correspond to apparatus claims 15 and 16 and are rejected for the same reasons of obviousness as used above.

Allowable Subject Matter

- 3. Claims 7, 17-19, and 20-22 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

Regarding claims 7, 17-19, and 20-22, claims 7 and 20 teach a method and apparatus for reducing write errors on a storage device, wherein a determination is performed whether or not a write operation on the storage medium according to the write command is performed within a predetermined amount of time after loading the read/write head on the storage medium and in

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response this determination, setting a verification flag to indicate a data verification is required immediately after the write operation, which is neither taught or an obvious variation of the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

- 5. Applicant's arguments with respect to claims 5 and 11 have been considered but are moot in view of the new grounds of rejection.
- 6. Applicant's arguments, see response to the previous Office action mailed February 7, 2005, filed April 15, 2005, with respect to claim 7 have been fully considered and are persuasive. The rejection of claim 7 has been withdrawn.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniell L. Negrón whose telephone number is 571-272-7559. The examiner can normally be reached on Monday-Friday (8:30am-5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Hudspeth can be reached on 571-272-7843. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DLN / July 19, 2005

DAVID HUDSPETH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

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